ZHANG Xu   
Email: zinkpolymer@gmail.com HP: +65 8393 7260

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| Language  · Chinese (Native proficiency)   |  |  |  | | --- | --- | --- | | · English | (Professional | working |   proficiency)  Skills   |  |  |  |  | | --- | --- | --- | --- | | · Digital | Light | Printing | (DLP) |   technology  · Mechanical and thermal properties  testing (Tensile, Impact, HDT, DSC  tester)  · Accelerated Weathering Tester · Innovation Yellow Belt certificate  (six sigma)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | · Respond | to | Fire | Incident | in |   Workplace certificate · Transient Plant Source Method  Software  · ChemDraw  · OriginLab  · MS Office | Education   |  |  | | --- | --- | | Master of Science in Industrial Chemistry (Distinction) | Jul 2019 - Apr 2021 |   German Institute of Science and Technology, TUM-Asia, NUS, Singapore· NUS CAP 4.38/5 · TUM CAP 1.3/5 (1 for full CAP)   |  |  | | --- | --- | | Bachelor of Engineering in Polymer Science and Materials | Sep 2015 - Jul |   2019 Northwestern Polytechnical University, NWPU, China · GPA 87/100 (top 10%)  Research Experience   |  |  | | --- | --- | | National College Students' Innovation and Entrepreneurship Training Program , China | May 2016 - Apr |   2017 (Bachelor) Program Code: 201610699271 · Research on the fabrication of modified cyanate ester resins/ high modulus poly (p-phenylene-2,6-  benzobisoxazole) (HMPBO) fibers wave-transparent composite; · Soluble epoxy-terminated PBO precursor (epoxy-prePBO) was fabricated; · Wave-transparent composite with 7wt% epoxy-prePBO showed satisfactory dielectric constant (e,   2.68) and dielectric loss tangent (tand, 0.0061) values.   |  |  | | --- | --- | | Study on Preparation of Dopamine-coated Boron Nitride/Polyimide (h-BN/PI) High Thermal Conductivity Composites , China | Dec 2018 - Jun 2019 (Bachelor) |   · h-BN nanoparticles modified by dopamine were fabricated; · Thermal properties of composites with the loading of 20vol% h-BN were improved (in-plane thermal conductivity as 3.009 W/mK).Research on the fabrication of modified cyanate ester resins/ high modulus poly (p-phenylene-2,6-benzobisoxazole) (HMPBO) fibers wave-transparent composite.  Work Experience   |  |  | | --- | --- | | Chemist (Full time) | Aug 2021 - Present |   Evonik (SEA) Pte Ltd., Singapore · Daily lab work (formulation making, resin printing, testing, and housekeeping activities);· Analyze lab data, independently summerize and make proposals for the further steps;· Ability to operate DLP printers and troubleshoot or adjust printing parameters independently;· Work on ESTER system (EHSQ) to fulfill the safety of operating equipment in lab; · Assist in onboarding training of new joiners (Interns, contractors or trainees).  Phoenix Project · Participate in and conduct the formulation, printing and testing jobs for project Phoenix (INFINAM ST6100L, a photopolymer material exhibits excellent mechanical and high temperature resistance);· Conduct resin iteration, postcuring study, daily sample printing, characterization and aging study.  Phlame Project · Participate in and work as a lead chemist in project Phlame (INFINAM FR 4100L, a photopolymer material exhibits flame retardant and mechanically durable after cured); · Optimize printing settings, postcuring study, aging and chemical resistance study, supporting data generation for IP work; · Continously work with customers to address the technical problems encountered.   |  |  | | --- | --- | | Internship for Research & Development Work | July 2020 - Apr |   2021 Evonik (SEA) Pte Ltd., Singapore · Formulate photopolymer resin and conduct 3D printing work · Conduct mechanical and thermal properties testing for plastic materials · Participate in housekeeping and research discussion · Analyze data and responsible for development of projects and QC of the materials  Awards  · DAAD Scholarship CY 2020-2021· Outstanding Volunteer Award in IICC-X&NPUMUN Conference May 2018· Honorable Mention Award in Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling Apr 2018 (MCM/ICM) · NWPU First-class Scholarship   CY 2017 - 2018· Distinguished Delegation Award in National MUN (NMUN-New York) Apr 2017· NWPU First-class Scholarship CY 2016 - 2017· NWPU First-class Scholarship CY 2015 - 2016  Publications  · Dongliang Ding, Zhihui Shang, Xu Zhang, Xingfeng Lei, Zhenguo Liu, Qiuyu Zhang, and Yanhui Chen.  Creamics International, 2020 (Bachelor thesis work); · Tough Flame-Retardant Radiation Curable Composition for Additive Manufacturing (Halogen-free), 2023E00236 SG, Inventor, 2023 (Projetc Phlame). |